

### Claims

1. A cell picking tool which is a molded body with a concave structure capable of picking a cell sheet which has been two-dimensionally cultured in a culture container while keeping the sheet form (while keeping the cells in a state of aggregation) without using a cell dispersant, characterized in that:

(1) the concave structure is made of a material having a cell adhesive property;

(2) the area of the opening portion of the concave structure ranges from 100 to  $9 \times 10^6 \mu\text{m}^2$ ; and

(3) when the opening portion of the concave structure and the cell sheet are brought into contact with each other, the opening portion of the concave structure and the cell sheet adhere to each other.

2. The cell picking tool according to claim 1, wherein the molded body comprises a calcium phosphate ceramic.

3. The cell picking tool according to claim 1, wherein the molded body is in a shape with a cross section having an aspect ratio (long axis/short axis) ranging from 1.005 to 5, and when it is placed on a flat surface, a part or the whole of an opening portion of a pore, a through hole or a dimple faces downward.

4. The cell picking tool according to claim 1, wherein the molded body is a molded body mixture of one type or two or more types selected from the group consisting of a spherical shape, a bead shape, a block shape, a plate shape, a polyhedral shape, a chestnut bur-like shape, a dendritic shape and a protruding shape with a size ranging from  $5 \times 10^{-4}$  to  $1 \times 10^3$  mm<sup>3</sup>.

5. The cell picking tool according to claim 1, wherein the molded body has one type or two or more types of structures selected from the group consisting of a pore, a through hole, a dimple, a slit, a joint formed by joining portions of protrusions, a surface adsorptive protein, a hydrophilic-treated surface, a polymer coat and an oxide film.

6. A molded body/cell complex in which cells are attached to the opening portion of the concave structure of the molded body according to claim 1.

7. A two-dimensionally or three-dimensionally accumulated matter of the molded body/cell complexes according to claim 6.

8. A cell handling method, characterized in that by placing the cell picking tool according to claim 1 in a container (cell collection site) in which cells grow, cells are attached to

the molded body and allowed to grow (passive cell collection), whereby the cells are handled together with the cell picking tool.